| Index of Claims |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|
|                 |  |  |  |  |  |  |  |  |  |  |  |  |

Application No.

10/690,279

Examiner

Helen C. Kwok

Applicant(s)

HOSHAL, GREGORY D.

Art Unit

2856

√ Rejected
= Allowed

\_ (Through numeral) Cancelled

Restricted

Non-Elected
I Interference

A Appeal
O Objected

| Cla             | aim      |          |  | Date   | е                |  | 1:::     | Cla         | aim      |                |                 |          | Dat          | e               |          |          | 1:::: | С           | aim      |  |                     |                 | C        | ate       |          |          |          |          |
|-----------------|----------|----------|--|--|------------------|--|----------|-------------|----------|----------------|-----------------|----------|--------------|-----------------|----------|----------|-------|-------------|----------|--|---------------------|-----------------|----------|-----------|----------|----------|----------|----------|
|                 | -        | 4        |  |  |                  |  | 1        |             |          | 4              |                 |          |              |                 |          |          |       |             |          |  |                     |                 |          |           |          |          |          |          |
| Final           | Original | 10/15/04 | 11   |  |                  |  |          | Final       | Original | 10/15/04       |                 | - 1      |              |                 |          |          |       | <u> </u>    | Original |  |                     |                 |          |           |          |          |          |          |
| i <u>Ē</u>      | ].E      | 8        | 1 1  |  |                  |  |          | i=          | Ę.       | 17             |                 | 1        |              |                 |          |          |       | Final       | .₽       |  |                     |                 | - 1      |           |          |          |          |          |
|                 | ٥        | -        |  |  |                  |  |          |             | 0        | 7              |                 |          | -            |                 |          |          |       |             | 0        | l  |                     |                 |          |           |          |          |          |          |
|                 | 1        | 7        | 11   |  |                  | 1  | 1        |             | 51       | 1              | $\vdash$        | $\dashv$ | +            | 1               | $\dashv$ | +        |       | <del></del> | 101      | <del>                                     </del> | $\vdash$            | _               | -        | -         | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |
|                 | 2        | 1        | 1 1  | 1  |                  |  |          | $\vdash$    | 52       | 1              | Н               | $\dashv$ | +-           | 1-              | $\dashv$ |          |       |             | 102      | -  | Н                   |                 | $\dashv$ | -         | -        | $\dashv$ | $\dashv$ | $\dashv$ |
|                 | 3        | 1        | ++   | 1  | ++-              | +  | 1        |             | 53       | V              | $\vdash$        | $\dashv$ | +            | 1-              | $\dashv$ |          |       |             | 103      | -  |                     | $\dashv$        | $\dashv$ | $\dashv$  |          | $\dashv$ | $\dashv$ | $\dashv$ |
|                 | 4        | V        | ++   | +  | ₩.               | +  | 1        | <u> </u>    | 54       | 1              | -               | +        | +            | -               | $\dashv$ |          |       |             | 103      |  | $\vdash$            | $\dashv$        | $\dashv$ | $\dashv$  | $\dashv$ | $\dashv$ |          | ᅱ        |
|                 | 5        | V        | ++   | +  | <del>   -</del>  | +  |          | <u> </u>    | 55       | 1              | -               | $\dashv$ | +            | -               | -        |          |       |             | 105      | -  | $\vdash$            | $\dashv$        | $\dashv$ | $\dashv$  |          | $\dashv$ |          | $\dashv$ |
|                 | 6        | V        | +  | +  | +-               | <del>-  -</del>                                  | -        | <del></del> | 56       | 1              | $\vdash$        | $\dashv$ | +-           | ╁─              |          | +        |       | <del></del> | 106      | -  | $\vdash$            | $\dashv$        | -        |           |          | $\vdash$ | $\dashv$ | $\dashv$ |
| -               | 7        | 1        | +  | +  |                  |  | -        | ├           | 57       | · •            | $\vdash$        | +        |              | -               | $\dashv$ | +        |       |             | 107      |  | $\vdash$            | $\dashv$        | $\dashv$ |           |          | -        | $\dashv$ | -        |
| -               | 8        | 1        | + +-   | +  | -                |  | -        |             | 58       | -              | $\vdash$        | +        | +            | -               | $\dashv$ |          |       | ├           | 107      |  | $\vdash$            | $\dashv$        | $\dashv$ | $\dashv$  |          | $\dashv$ |          | ᅴ        |
|                 | 9        | V        | +  | -  | _                | +  | -        | <b></b> -   | 59       | H              | $\vdash$        | +        | <del> </del> | ╌               |          | +        |       | <u> </u>    | 108      | ├  | $\vdash$            | $\dashv$        | -        |           | -        | -        |          | ᅴ        |
| -               |          | 1        | +  | ┼  |                  | ++   | -        |             |          |                | $\vdash$        | +        | +-           | -               |          | -        |       | <u> </u>    | 109      | -  | $\vdash$            | $\dashv$        |          |           |          | -        |          | _        |
| <u> </u>        | 10       |          | +  |  |                  |  | -        |             | 60       | _              | $\vdash$        | $\dashv$ | ┿            | -               | $\dashv$ | _        |       |             | 110      | _  |                     | $\rightarrow$   | -        |           |          | _        |          |          |
|                 | 11       | 1        | ++   |  |                  | <del> - </del>                                   | 4        | <u> </u>    | 61       | $\vdash$       | $\vdash \vdash$ | +        | +            | $\vdash$        |          | _        |       |             | 111      | <u> </u>   | $\sqcup$            | _               | _        | _         |          |          | _        |          |
|                 | 12       | 1        | +  | +  | -                | <del>    -</del>                                 | 4        | $\vdash$    | 62       | <b> </b>       | $\vdash \vdash$ |          | $\perp$      | $\vdash$        | <b>—</b> |          |       | <u> </u>    | 112      | $\vdash$   | Щ                   | _               | _        | _         |          | Ц        | _        |          |
| <u> </u>        | 13       | 1        | ++   | +  | $\vdash \vdash$  | <del>                                     </del> | 4        | $\vdash$    | 63       | $\vdash$       | $\vdash \vdash$ | 4        |              | Ш               | $\vdash$ | -        |       |             | 113      | _  | Щ                   | _               | _        |           |          | _        |          |          |
| <u> </u>        | 14       | 1        | ++   | +-   | $\vdash \vdash$  | 4  |          | <u> </u>    | 64       | $\vdash$       | $\vdash \vdash$ | _        | _            | $\sqcup$        |          |          |       |             | 114      |  | Ш                   | _               | _ļ       |           |          | Ц        |          |          |
| ├               | 15       | 1        | +  |  | oxdot            | +  |          | L           | 65       | Щ              | $\sqcup$        |          | 4_           | Ш               |          |          |       | L           | 115      | _  | Ш                   | $\perp$         | _        | $\sqcup$  |          |          |          |          |
| ļ               | 16       | 1        | +  | -  | $\sqcup \bot$    | $\bot \bot$                                      | 1        |             | 66       | Щ              | Ш               | $\perp$  |              | Ш               |          |          |       |             | 116      |  | Ш                   | $\perp$         |          |           |          |          |          | ]        |
|                 | 17       | 1        | $\bot \bot$                                      |  | ot               | 11   | Į.       |             | 67       |                | Ш               | $\perp$  |              | Ш               |          |          |       |             | 117      |  | Ш                   |                 |          | $\Box$    |          |          |          | ]        |
|                 | 18       | 1        |  |  | oxdot            | $\perp \perp \perp$                              |          |             | 68       |                |                 |          |              |                 |          |          |       |             | 118      |  |                     |                 |          |           |          |          |          |          |
|                 | 19       | 1        |  |  |                  | 1_1_   |          |             | 69       |                |                 |          |              |                 |          |          |       |             | 119      |  |                     |                 |          |           |          |          |          |          |
|                 | -20      | 1        |  | 1  |                  |  |          | ,           | 70       |                |                 |          |              |                 |          | -        |       |             | 120      | ×  |                     |                 |          | $\neg$    |          |          | $\neg$   |          |
|                 | 21       | 1        |  |  |                  |  |          |             | 71       |                |                 |          |              |                 |          |          |       |             | 121      |  |                     | Т               | $\neg$   | T         |          |          | $\neg$   |          |
|                 | 22       | 1        | 1:-[-  | T  |                  |  |          |             | 72       |                |                 | Т        |              |                 |          |          |       |             | 122      |  |                     |                 |          |           |          |          | $\neg$   | $\neg$   |
|                 | 23       | 1        | TT   |  |                  |  |          |             | 73       |                |                 | $\neg$   |              | П               |          |          |       |             | 123      | Г  | П                   | $\neg$          |          |           |          |          |          | $\neg$   |
|                 | 24       | 1        |  |  |                  |  |          |             | 74       |                |                 | $\neg$   |              | П               |          | 1 -      |       |             | 124      |  | П                   | $\neg \uparrow$ | $\neg$   |           |          |          | $\neg$   | $\neg$   |
|                 | 25       | 1        |  |  |                  |  |          |             | 75       |                |                 |          |              |                 |          |          |       |             | 125      |  | П                   |                 | $\neg$   |           |          | $\neg$   | T        |          |
|                 | 26       | 1        | 1-1-   | 7  |                  |  |          |             | 76       |                |                 |          |              |                 |          |          |       |             | 126      |  | П                   | $\dashv$        | ┪        |           |          |          | ヿ        |          |
|                 | 27       | 1        |  |  |                  |  |          |             | 77       |                |                 | $\top$   |              | m               |          |          |       |             | 127      |  |                     | $\neg$          | _        | $\exists$ |          |          | 一        | _        |
|                 | 28       | 1        | 11   | 1  |                  |  | 1        |             | 78       |                |                 |          |              | $\vdash$        |          | _        |       |             | 128      |  | Н                   | $\dashv$        | _        | 7         |          | $\dashv$ | 一        | $\neg$   |
|                 | 29       | 1        |  | <del>                                     </del> |                  | 1 1  | 1:::     |             | 79       | П              | H               | 1        |              | $\vdash$        |          | _        |       | -           | 129      | _  | Н                   | $\dashv$        | $\dashv$ | T         |          |          | _        |          |
|                 | 30       | 1        | <del>                                     </del> |  |                  | 1 1  |          |             | 80       |                |                 | $\dashv$ |              | $\vdash$        | _        | $\vdash$ |       |             | 130      |  | $\vdash$            | $\dashv$        | $\dashv$ | ┪         | -        | -        | -        | -        |
|                 | 31       | 1        |  | +-   |                  | $\vdash$   |          |             | 81       | Н              |                 |          | +            | 1               | $\neg$   | $\dashv$ |       |             | 131      | <del>                                     </del> | $\vdash$            |                 | $\dashv$ | $\dashv$  | $\neg$   | _        | $\dashv$ | $\dashv$ |
|                 | 32       | 1        |  | $\top$   | <del> </del>     | 1  |          |             | 82       | Н              | -               | $\dashv$ | 十            | Н               |          | +        |       |             | 132      | $\vdash$   | $\vdash$            | $\dashv$        | $\dashv$ | $\dashv$  | $\dashv$ | -        | $\dashv$ | -        |
|                 | .33      | 1        |  | $\top$   |                  | +  |          |             | 83       | Н              | $\dashv$        |          | +            | H               | -        | $\dashv$ |       |             | 133      |  | Н                   | $\dashv$        | $\dashv$ | $\dashv$  | $\dashv$ | -        | ᅱ        | -        |
|                 | 34       | 1        | ++   | +  |                  | 1-1-   | liii     |             | 84       | Н              | $\vdash$        | +        | +            | $\vdash$        | $\dashv$ | +        |       |             | 134      | $\vdash$   | $\vdash$            | $\dashv$        | $\dashv$ | $\dashv$  | -        | -        |          | $\dashv$ |
|                 | 35       | 1        | +  | 1  | -                | + + -  |          | $\vdash$    | 85       | $\vdash$       | $\dashv$        | +        | +            | $\vdash$        | +        | $\dashv$ |       |             | 135      | $\vdash$   | ⊢┼                  | $\dashv$        |          | -         | -        |          | $\dashv$ | $\dashv$ |
|                 | 36       | V        | +  | +  | <del>    -</del> | ++-  |          |             | 86       | Н              | $\vdash$        | +        | +            | Н               | +        | +        |       | <del></del> | 136      | $\vdash$   | $\vdash$            | -+              | -+       | $\dashv$  | -        | -        | $\dashv$ | $\dashv$ |
|                 | 37       | 1        | +  | +  | $\vdash$         | +  |          |             | 87       | Н              | $\dashv$        | -        | +            | Н               | +        | +-       |       |             | 137      | $\vdash$   | $\vdash$            | +               | $\dashv$ | -         | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |
| <u> </u>        | 38       | 1        | +  | +  | $\vdash\vdash$   | + +-   |          |             | 88       | Н              | $\vdash$        |          | +            | $\vdash$        | +        | +-       |       |             | 138      | -  | ┝╼┤                 | $\dashv$        | $\dashv$ | -         |          | -        | -        |          |
|                 | 39       | 1        | ++   | +  | <del>   -</del>  | ++-  |          |             | 89       | H              | $\vdash$        | +        | +            | Н               | $\dashv$ | +        |       | -           | 139      | -  |                     | $\dashv$        | -        | $\dashv$  | $\dashv$ | -        |          | $\dashv$ |
| <del></del>     | 40       | 1        | +  | +-   | $\vdash\vdash$   | +  | 1        |             | 90       | Н              |                 | +        | +            | $\vdash$        |          |          |       |             | 140      | $\vdash$   | $\vdash$            | $\dashv$        | $\dashv$ | -         | $\dashv$ | $\dashv$ |          | $\dashv$ |
| $\vdash \dashv$ | 41       | 7        | +-+  | +-   | $\vdash \vdash$  | ++-  | <b> </b> |             | 91       | Н              | $\vdash$        |          | +            | $\vdash$        | $\dashv$ | +        |       |             | 140      | -  |                     | -+              | $\dashv$ |           | -        | -        | -        |          |
|                 | 41       | 1        | ++   | +  | $\vdash\vdash$   | +  | 1        |             | 92       |                | -+              | +        | +-           | $\vdash$        | $\dashv$ |          |       |             | 141      | $\vdash$   | ⊢┼                  | +               | -+       | $\dashv$  | _        | $\dashv$ |          | _        |
| $\vdash$        | 42       | 7        | ++   | +  |                  | +  |          | $\vdash$    |          | $\vdash$       | $\vdash$        | - -      | +            | $\vdash$        |          |          |       |             | 142      | _  | $\vdash \vdash$     | $\dashv$        | $\dashv$ |           | _        | -        | -        | _        |
|                 | 43       | 1        | ++   | +  | $\vdash$         | ++-  |          |             | 93       | $\vdash$       | -               |          | +            | $\vdash$        |          |          |       |             | 143      | <u> </u>   | $\vdash \dashv$     | $\dashv$        | -        |           |          |          | -        |          |
| <u> </u>        |          |          | ++   | +  | $\vdash$         | <del>                                     </del> |          |             | 94       | $\vdash\vdash$ | $\dashv$        | -        | +-           |                 | -        |          |       |             | 144      |  | $\vdash$            | 4               |          | _         |          | $\dashv$ |          | ႕        |
|                 | 45       | 1        | +  | +  | <del></del>      | <del>      -   -  </del>                         |          |             | 95       | $\vdash$       | $\dashv$        | - -      | - -          | $\vdash$        |          |          |       |             | 145      | $\vdash$   | $\vdash \downarrow$ | $\dashv$        | _        | _         | _        | 4        | _        | _        |
| <del></del>     | 46       | 1        | ++   | +-   | $\vdash$         | ++   |          |             | 96       | Н              |                 | +        | +            | $\vdash$        | $\dashv$ | _        |       |             | 146      | _  | $\vdash$            | 4               | 4        |           | _        | 4        | _        |          |
| <b></b>         | 47       | 7        | ++   | +  |                  |  |          |             | 97       | $\vdash$       | $\dashv$        | +        | +            | $\vdash \vdash$ |          |          |       |             | 147      | _  | $\sqcup$            | 4               |          | _         | _        | _        | _        | _        |
| $\vdash$        | 48       | 1        | ++   | +  |                  | +  |          | $\vdash$    | 98       | $\vdash$       | _               | 4        | -            | Ш               | -        | -        |       |             | 148      | <u> </u>   | $\sqcup$            | 4               | _        | 4         |          | 4        | _        | ᆜ        |
| $\vdash$        | 49       | 1        | ++   | 4-   | $\vdash \vdash$  | +  |          | igsquare    | 99       | Щ              | 1               | $\perp$  | +            | Ш               | -        | $\perp$  |       |             | 149      | L  | $\sqcup$            | $\dashv$        | _        |           |          | $\dashv$ |          |          |
| oxdot           | 50       | 1        |  |  |                  |  | ]::::    | 1 1         | 100      | ıl             |                 |          | 1            | ıl              |          |          |       |             | 150      |  |                     | - 1             | - 1      | - 1       | - 1      | - 1      | - 1      | - 1      |